JILSON CORREIA

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SUMMARY

Versatile and results-driven Software Developer with strong academic and industry experience in building scalable web applications and modern UI interfaces with a good understanding of SDLC. Proficient in Java, Python, JavaScript, TypeScript, React, Node.js, with a solid foundation in computer science, object-oriented design, algorithm design, and data structures and algorithms. Skilled in deploying full-stack applications, microservices, and containerized services using Docker and AWS. Experienced in Agile methodology, CI/CD pipelines, test automation, code reviews, and continuous deployment. Passionate about solving user problems, writing clean and testable code, and delivering high-quality, secure software solutions.

EDUCATION

Northeastern University, *Master of Science, Computer Software Engineering,* **Boston, MA**   Sept 2023 – May 2025
Relevant courses: Object-Oriented Design, Web Development, Artificial Intelligence, Data Structures, Cloud Computing, User Experience and Design

Certifications: AWS Certified Developer Associate, React Developer Certificate

University of Mumbai, *Bachelor of Engineering, Computer IT Engineering,* **Mumbai, India**   Aug 2018 – June 2022
Relevant courses: Data Structures and Algorithms, Computer Networks, Software Engineering, Cloud Computing, Operating Systems

EXPERIENCE

Software Engineer Intern, *IPSER LAB,* **Mountain View, USA**   Jan 2025 – May 2025
- Built scalable backend services using Node.js and integrated REST APIs with React, improving system modularity.
- Contributed across the full Software Development Life Cycle, from requirement analysis and design to development and deployment of production-ready features.
- Deployed containerized ML models using FastAPI and Docker, enabling real-time prediction capabilities.
- Refactored legacy UI components into modular React architecture, enhancing maintainability and testability.
- Led debugging efforts and log analysis to resolve production defects, improving system reliability.
- Increased frontend responsiveness by 15% through optimization and performance tuning.

Web Developer, *IWMBUZZ,* **Mumbai, India**   Jan 2023 – Apr 2023
- Developed interactive and responsive UI components using React, improving page engagement by 20%.
- Designed and integrated RESTful APIs with Node.js and MongoDB to support dynamic content rendering.
- Optimized application load speed by 25% by leveraging AWS CloudFront and S3 for static asset delivery.
- Set up CI/CD pipelines using GitHub Actions and Docker, reducing manual deployment time by 60%.
- Implemented application monitoring using AWS CloudWatch and custom health-check routes to improve uptime tracking.
- Collaborated with cross-functional design and SEO teams to implement structured metadata and improve Google indexing.
- Wrote unit and integration tests using Jest and Selenium to ensure code reliability and prevent regressions.
- Participated in Agile ceremonies, sprint planning, and bi-weekly demos to align feature rollouts with marketing goals.

TECHNICAL SKILLS

Languages: Java, Python, Go, JavaScript, TypeScript, Shell, Bash, C++

Web Frameworks: React, Angular, Spring Boot, Express.js, FastAPI, MVC, Hibernate

DevOps/ Monitoring: Docker, Kubernetes, Jenkins, GitHub Actions, Terraform, Airflow

Cloud Platforms: AWS (EC2, S3, Lambda, CloudFront), Azure, GCP

Databases: MySQL, PostgreSQL, MongoDB, Oracle, Redis, DynamoDB, Kafka

Other Tools: Git, Postman, Jira, Selenium, JUnit, Confluence

Concepts: Microservices, CI/CD, Secure Coding, System Design, Observability, Agile, Operational Excellence

PROJECTS

Distributed Rate Limiter Service | GitHub   July 2025
- Architected a high-performance distributed rate limiting service in Go with sub-millisecond latency, supporting 10,000+ RPS using Gin framework and Redis clustering.
- Implemented three industry-standard algorithms (Token Bucket, Fixed Window, Sliding Window) with atomic Lua scripts ensuring thread-safe operations and 99.9% availability.
- Built production-ready REST API with Docker containerization, structured JSON logging, graceful shutdown handling, and horizontal scaling capabilities.

Content Management System (CMS) | GitHub   Oct 2024 – Dec 2024
- Built a CMS platform using Spring Boot and React to manage courses and quizzes.
- Deployed Spring Boot microservice to AWS EC2 using Docker and GitHub Actions for streamlined delivery and scalability.
- Implemented OOP concepts such as inheritance, factory pattern, and secure file handling.
- Integrated role-based access control for user authorization and management.